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ELECTROPHORETIC DISPLAY ELEMENT
RICOH CO LTD

Inventor(s) ; MURAYAMA HISAO ; KAWABATA TOSHIYASU ; NAKAYAMA NOBUHIRO
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Abstract: PURPOSE: To obtain the titled element having improved dispersibility and electric charge property of a pigment powder contd. in a dispersing solution and a large and clear color difference and capable of giving a uniform display by incorporating an organodisilazane to the dispersing solution as a dispersant.

CONSTITUTION: The titled element is formed by enclosing a solution dispersed in a colored dispersing medium having a high insulating property, the pigment particle which has a different color tone from that of said colored dispersing medium in a space formed between two sheets of counter electrodes in which one of said electrodes is a transparent. In the titled element, the organodisilazane shown by the formula is incorporated in the dispersing solution or coats the pigment particle. The particle having a positive or a negative polarity in the dispersing medium is used as the pigment particle. Said particle is exemplified by an inorg. pigment such as titanium oxide (a rutile type or an anatase type), etc., as a white color series, and by an inorg. pigment such as a yellow color iron oxide or an org. pigment such as a hansa yellow, etc., as a yellow color series. Thus, the uniform display having the large and clear color difference is obtd.

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